

ABSTRACT OF THE DISCLOSURE

The invention relates to a multiplexing and demultiplexing method and apparatus, wherein a transmission of input data from one or a plurality of input buffers to a plurality of or one output buffer, respectively, is released when all of the plurality of or the one output buffer is capable of receiving data. Thus, a plurality of devices can be connected to another device using only one address. The plurality of devices may then decide themselves whether the data belongs to them or not. In one direction, the data is broadcasted to all of the plurality of devices and, in the other direction, one of the plurality of devices can transmit data at a time. Accordingly, interface addresses can be saved in case the number of addresses is not enough for all of the plurality of devices.